In the Claims

Claims 1-30 are canceled.

31. [Currently Amended] A removable electrical interconnect apparatus for removably engaging electrically conductive pads on [[a]] semiconductor substrate substrates having integrated circuitry fabricated therein, the apparatus comprising:

[[a]] an apparatus substrate; and

an engagement probe projecting from the <u>apparatus</u> substrate to engage a single conductive pad on a semiconductor substrate having integrated circuitry formed in the semiconductor substrate, the engagement probe having an outer surface comprising an apex in the form of a knife-edge line and comprising semiconductor material and configured to removably penetrate <u>a</u> single conductive pad of the semiconductor substrate comprising integrated circuitry and to removably penetrate another single conductive pad of another semiconductor substrate also comprising integrated circuitry.

- 32. [Currently Amended] The removable electrical interconnect apparatus of claim 31 wherein the engagement probe is formed on a projection from the <u>apparatus</u> substrate.
- 33. [Original] The removable electrical interconnect apparatus of claim 31 wherein the knife-edge line projects from a penetration stop plane.

- 34. [Currently Amended] The removable electrical interconnect apparatus of claim 31 wherein the knife-edge line projects from a penetration stop plane, the knife-edge line having a tip and having a base at the penetration stop plane, the tip being a distance from the penetration stop plane of about one-half the thickness of the conductive pad pads which the apparatus is adapted to engage.
- 35. [Currently Amended] The removable electrical interconnect apparatus of claim 31 wherein the engagement probe is formed on a projection from the <u>apparatus</u> substrate, the knife-edge line projecting from a penetration stop plane on the projection.
- 36. [Currently Amended] The removable electrical interconnect apparatus of claim 31 wherein the engagement probe is formed on a projection from the <u>apparatus</u> substrate, the knife-edge line projects from a penetration stop plane on the projection, the knife-edge line having a tip and having a base at the penetration stop plane, the tip being a distance from the penetration stop plane of about one-half the thickness of the conductive <u>pad pads</u> which the apparatus is adapted to engage.
- 37. [Previously Presented] The removable electrical interconnect apparatus of claim 31 wherein outermost portions of the apex comprise a first electrically conductive material, and wherein the conductive pads for which the apparatus is adapted to engage have outermost portions comprising a second electrically conductive material; the first and second electrically conductive materials being different.

38. [Previously Presented] The removable electrical interconnect apparatus of claim 31 wherein the engagement probe comprises material of a bulk semiconductor substrate.

39. [Original] The removable electrical interconnect apparatus of claim 31 wherein the knife-edge line includes an outer conductive layer.

40. [Currently Amended] The removable electrical interconnect apparatus of claim 31 wherein the outer surface includes plural knife-edge lines configured to engage the single conductive pad pads.

41. [Currently Amended] The removable electrical interconnect apparatus of claim 31 wherein the engagement probe is formed from a semiconductor substrate and the outer surface includes plural knife-edge lines configured to engage the single conductive pad pads.

42. [Currently Amended] The removable electrical interconnect apparatus of claim 31 wherein the engagement probe is formed from a semiconductor substrate and the outer surface includes plural knife-edge lines configured to engage the single conductive pad pads and the knife-edge lines include outer conductive layers.

Claims 43-53 are canceled.

- 54. [Previously Presented] A removable engagement probe having an outer surface comprising an apex in the form of a knife-edge line and comprising semiconductor material and sized and positioned to penetrate a single conductive pad; and wherein the knife-edge line projects from a penetration stop plane.
- 55. [Previously Presented] The removable engagement probe of claim 54 wherein the knife-edge line is formed on a projection from a substrate.
- 56. [Previously Presented] The removable engagement probe of claim 54 wherein the outer surface comprises a plurality of apexes having respective tips and bases, and the penetration stop plane is intermediate the bases and substantially parallel to a surface of a substrate.
- 57. [Previously Presented] The removable engagement probe of claim 54 wherein the knife-edge line has a tip and has a base at the penetration stop plane, the tip being a distance from the penetration stop plane of about one-half the thickness of the conductive pad which the apparatus is adapted to engage.
- 58. [Previously Presented] The removable engagement probe of claim 54 wherein the knife-edge line is formed on a projection from a substrate and projects from the penetration stop plane on the projection.

- 59. [Previously Presented] The removable engagement probe of claim 54 wherein the knife-edge line is formed on a projection from a substrate and projects from the penetration stop plane on the projection, the knife-edge line having a tip and having a base at the penetration stop plane, the tip being a distance from the penetration stop plane of about one-half the thickness of the conductive pad which the apparatus is adapted to engage.
- 60. [Previously Presented] The removable engagement probe of claim 54 wherein outermost portions of the apex comprise a first electrically conductive material, and wherein the conductive pad for which the probe is adapted to engage has outermost portions comprising a second electrically conductive material; the first and second electrically conductive materials being different.
- 61. [Previously Presented] The removable engagement probe of claim 54 wherein the probe comprises material of a bulk semiconductor substrate.
- 62. [Currently Amended] The removable electrical interconnect apparatus of claim 31 wherein the knife-edge line is sized and positioned to extend elevationally above an uppermost surface of the <u>apparatus</u> substrate.
- 63. [Currently Amended] The removable electrical interconnect apparatus of claim 32 wherein the projection includes a surface substantially parallel to a surface of the <u>apparatus</u> substrate.

- 64. [Previously Presented] The removable engagement probe of claim 54 wherein the knife-edge line projects elevationally above an uppermost surface of a substrate which defines the penetration stop plane.
- 65. [Previously Presented] The removable engagement probe of claim 55 wherein the projection has a surface substantially parallel to a surface of a substrate and which defines the penetration stop plane.
 - 66. Canceled.
- 67. [Currently Amended] The removable electrical interconnect apparatus of claim 31 wherein the <u>apparatus</u> substrate comprises semiconductor material.
- 68. [Currently Amended] The removable electrical interconnect apparatus of claim 31 wherein the <u>apparatus</u> substrate comprises [[a]] semiconductor <u>substrate material</u> and the engagement probe comprises semiconductor material of the <u>semiconductor apparatus</u> substrate.
- 69. [Currently Amended] The <u>removable</u> engagement probe of claim 54 wherein the engagement probe comprises semiconductor material.

70. [Currently Amended] The <u>removable</u> engagement probe of claim 54 wherein the engagement probe comprises semiconductor material formed from a semiconductor substrate.

Claims 71-74 are canceled.

- 75. [Previously Presented] The removable electrical interconnect apparatus of claim 31 wherein the apex comprises a solid mass of material devoid of any void space.
- 76. [Previously Presented] The removable engagement probe of claim 54 wherein the apex comprises a solid mass of material devoid of any void space.
 - 77. [Currently Amended] An electrical system comprising:
- a first electrically conductive pad on a first semiconductor substrate comprising integrated circuitry formed using the first semiconductor substrate;
- a second electrically conductive pad on a second semiconductor substrate comprising integrated circuitry formed using the second semiconductor substrate; and

a removable electrical interconnect apparatus for removably engaging the first and second electrically conductive pads, the apparatus comprising:

[[a]] an apparatus substrate; and

an engagement probe projecting from the <u>apparatus</u> substrate to engage the first electrically conductive pad, the engagement probe having an outer surface comprising an apex in the form of a knife-edge line and comprising semiconductor material and

configured to removably engage the first electrically conductive pad and to removably engage the second electrically conductive pad.

- 78. [Previously Presented] The electrical system of claim 77 wherein the apex is configured to penetrate the first and the second electrically conductive pads.
 - 79. [Previously Presented] An electrical system comprising: a single conductive pad;

a removable engagement probe having an outer surface comprising an apex in the form of a knife-edge line and comprising semiconductor material and sized and positioned to engage the single conductive pad; and

wherein the knife-edge line projects from a penetration stop plane.

- 80. [Previously Presented] The electrical system of claim 79 wherein the apex is configured to penetrate the single conductive pad.
- 81. [New] The removable electrical interconnect apparatus of claim 31 wherein the apex in the form of the knife-edge line comprises a polyhedron.
- 82. [New] The removable electrical interconnect apparatus of claim 31 wherein the apex in the form of the knife-edge line comprises a triangular prism.

- 83. [New] The removable engagement probe of claim 54 wherein the apex in the form of the knife-edge line comprises a polyhedron.
- 84. [New] The removable engagement probe of claim 54 wherein the apex in the form of the knife-edge line comprises a triangular prism.
- 85. [New] The electrical system of claim 77 wherein the apex in the form of the knife-edge line comprises a polyhedron.
- 86. [New] The electrical system of claim 77 wherein the apex in the form of the knife-edge line comprises a triangular prism.
- 87. [New] The electrical system of claim 79 wherein the apex in the form of the knife-edge line comprises a polyhedron.
- 88. [New] The electrical system of claim 79 wherein the apex in the form of the knife-edge line comprises a triangular prism.